

CLAIMS:

1. A safety electrical outlet for receiving metallic prongs of an electrical plug, comprising:

5 a housing having at least two plug passages being sized for receiving the metallic prongs of the electrical plug;

at least two metallic connectors mounted on the housing for connection to an electrical power source;

10 at least two transverse channels, each channel having an opening communicating with the corresponding plug passage and extending toward the corresponding metallic connector; and

15 at least two spring-biased members having a top end and a bottom end, each spring-biased member being inserted in each corresponding transverse channel and being movable between an extended position where the first end of the spring-biased member partially extends within the corresponding plug passage and the second end is spaced apart from the metallic connector and a retracted position where the corresponding metallic prong that is inserted inside the passage pushes against the top end of the spring-biased member so that the second end of the spring-biased member touches the corresponding metallic connector for establishing an electrical
20 contact between the metallic prong and the corresponding metallic connector.

25 2. The safety electrical outlet according to claim 1, wherein each channel has a first and second abutment portions spaced apart from each other for receiving each spring-biased member and wherein each spring-biased member comprises:

a metal ball for abutting against the first abutment portion of the channel;

30 a hollow rod having first and second openings and inner and outer abutment portions, the metal ball abutting against the first opening of the hollow rod;

a metal pin inserted inside the rod, the pin having an enlarged head portion for abutting against the inner abutment of the rod and a tip portion sized to extend through the second opening of the rod;

5 an inner spring inserted inside the hollow rod, the inner spring having a first end for contacting the ball and a second end for contacting the head portion of the pin; and

10 an outer spring coiled around the rod, the outer spring having a first end for abutting against the outer abutment portion of the rod and a second end for abutting against the second abutment portion of the channel.

3. The safety electrical outlet according to claim 1, wherein each transverse channel extends perpendicularly with respect to the corresponding plug passage and is located on a rear part thereof.

15 4. The safety electrical outlet according to claim 1, wherein the housing has a front face and a back face, and wherein the outlet comprises a cover connected to the front face of the housing and the metallic connectors are located on the back face of the housing.

20 5. The safety electrical outlet according to claim 1, wherein the electric power source comprises a connector circuit having at least two passages for receiving the metallic connectors.

25 6. The safety electrical outlet according to claim 1, comprising four plug passages, four corresponding transverse channels and four spring-biased members.